

# Minghua Chen

## List of Publications by Year in descending order

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150  
papers

3,682  
citations

236833

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276775

41  
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150  
all docs

150  
docs citations

150  
times ranked

2798  
citing authors

#	ARTICLE	IF	CITATIONS
1	DeepOPF-V: Solving AC-OPF Problems Efficiently. IEEE Transactions on Power Systems, 2022, 37, 800-803.	4.6	26
2	Minimizing Cost-Plus-Dissatisfaction in Online EV Charging Under Real-Time Pricing. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12464-12479.	4.7	4
3	Forecast Competition in Energy Imbalance Market. IEEE Transactions on Power Systems, 2022, 37, 2397-2413.	4.6	6
4	Minimizing Aol With Throughput Requirements in Multi-Path Network Communication. IEEE/ACM Transactions on Networking, 2022, 30, 1203-1216.	2.6	6
5	Efficient and Robust Equilibrium Strategies of Utilities in Day-Ahead Market With Load Uncertainty. IEEE Systems Journal, 2022, 16, 5246-5257.	2.9	8
6	Competitive prediction-aware online algorithms for energy generation scheduling in microgrids. , 2022, , .		2
7	Competitive Online Optimization with Multiple Inventories. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2022, 6, 1-28.	1.4	1
8	DeepOPF: A Deep Neural Network Approach for Security-Constrained DC Optimal Power Flow. IEEE Transactions on Power Systems, 2021, 36, 1725-1735.	4.6	80
9	Optimal Online Algorithms for Peak-Demand Reduction Maximization with Energy Storage. , 2021, , .		15
10	Energy-Efficient Timely Truck Transportation for Geographically-Dispersed Tasks. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5148-5159.	4.7	6
11	SafeWatch. ACM Transactions on Cyber-Physical Systems, 2020, 4, 1-21.	1.9	22
12	A Tale of Two Metrics in Network Delay Optimization. IEEE/ACM Transactions on Networking, 2020, 28, 1241-1254.	2.6	2
13	Network Utility Maximization Under Maximum Delay Constraints and Throughput Requirements. IEEE/ACM Transactions on Networking, 2020, 28, 2132-2145.	2.6	5
14	A Novel Retrospect-Inspired Regime for Microgrid Real-Time Energy Scheduling With Heterogeneous Sources. IEEE Transactions on Smart Grid, 2020, 11, 4614-4625.	6.2	20
15	<i>eDirect</i>: Energy-Efficient D2D-Assisted Relaying Framework for Cellular Signaling Reduction. IEEE/ACM Transactions on Networking, 2020, 28, 860-873.	2.6	7
16	Workload Transfer Strategy of Urban Neighboring Data Centers With Market Power in Local Electricity Market. IEEE Transactions on Smart Grid, 2020, 11, 3083-3094.	6.2	16
17	Minimizing Emission for Timely Truck Transportation with Adaptive Fuel Injection. , 2020, , .		1
18	Opportunistic Driving. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	A Probabilistic Approach for Demand-Aware Ride-Sharing Optimization. , 2019, , .		8
20	Network Utility Maximization under Maximum Delay Constraints and Throughput Requirements. , 2019, , .		2
21	Minimizing Age-of-Information with Throughput Requirements in Multi-Path Network Communication. , 2019, , .		19
22	Stay or Switch. , 2019, , .		3
23	Balancing Cost and Dissatisfaction in Online EV Charging under Real-time Pricing. , 2019, , .		16
24	A retroactive approach to microgrid real-time scheduling in quest of perfect dispatch solution. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1608-1618.	3.3	20
25	DeepOPF: Deep Neural Network for DC Optimal Power Flow. , 2019, , .		48
26	Device-to-Device Load Balancing for Cellular Networks. IEEE Transactions on Communications, 2019, 67, 3040-3054.	4.9	11
27	Competitive Online Optimization under Inventory Constraints. Proceedings of the ACM on Measurement and Analysis of Computing Systems, 2019, 3, 1-28.	1.4	7
28	Ride the Tide of Traffic Conditions. , 2019, , .		6
29	Energy-Efficient Timely Transportation of Long-Haul Heavy-Duty Trucks. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2099-2113.	4.7	18
30	Joint Bidding and Geographical Load Balancing for Datacenters: Is Uncertainty a Blessing or a Curse?. IEEE/ACM Transactions on Networking, 2018, 26, 1049-1062.	2.6	18
31	Peak-Aware Online Economic Dispatching for Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 323-335.	6.2	42
32	Impact of the Uncertainty of Distributed Renewable Generation on Deregulated Electricity Supply Chain. IEEE Transactions on Smart Grid, 2018, 9, 6183-6193.	6.2	26
33	Hardware-in-the-loop Implementation of Residential Intelligent Microgrid. , 2018, , .		3
34	Impact of the Uncertainty of Distributed Renewable Generation on Deregulated Electricity Supply Chain. , 2018, , .		3
35	Robust Multi-stage Power Grid Operations with Energy Storage. , 2018, , .		2
36	Energy-Efficient Timely Truck Transportation for Geographically-Dispersed Tasks. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
37	A Tale of Two Metrics in Network Delay Optimization. , 2018, , .		5
38	Learning-Aided Stochastic Network Optimization With State Prediction. IEEE/ACM Transactions on Networking, 2018, 26, 1810-1820.	2.6	5
39	Incentivizing Device-to-Device Load Balancing for Cellular Networks: An Online Auction Design. IEEE Journal on Selected Areas in Communications, 2017, 35, 265-279.	9.7	46
40	Sending Perishable Information: Coding Improves Delay-Constrained Throughput Even for Single Unicast. IEEE Transactions on Information Theory, 2017, 63, 252-279.	1.5	10
41	Understanding Performance of Edge Content Caching for Mobile Video Streaming. IEEE Journal on Selected Areas in Communications, 2017, 35, 1076-1089.	9.7	124
42	Robust Online Algorithms for Peak-Minimizing EV Charging Under Multistage Uncertainty. IEEE Transactions on Automatic Control, 2017, 62, 5739-5754.	3.6	29
43	Cost-Effective Low-Delay Design for Multiparty Cloud Video Conferencing. IEEE Transactions on Multimedia, 2017, 19, 2760-2774.	5.2	19
44	SafeWatch. , 2017, , .		17
45	Crowd-Sourced Storage-Assisted Demand Response in Microgrids. , 2017, , .		10
46	Proactive Serving Decreases User Delay Exponentially: The Light-Tailed Service Time Case. IEEE/ACM Transactions on Networking, 2017, 25, 708-723.	2.6	11
47	Battery swapping assignment for electric vehicles: A bipartite matching approach. , 2017, , .		4
48	Joint bidding and geographical load balancing for datacenters: Is uncertainty a blessing or a curse?. , 2017, , .		7
49	On the min-max-delay problem: NP-completeness, algorithm, and integrality gap. , 2017, , .		6
50	Timely Wireless Flows With General Traffic Patterns: Capacity Region and Scheduling Algorithms. IEEE/ACM Transactions on Networking, 2017, 25, 3473-3486.	2.6	32
51	On coding capacity of delay-constrained network information flow: An algebraic approach. , 2016, , .		1
52	Online multi-stage decisions for robust power-grid operations under high renewable uncertainty. , 2016, , .		7
53	BASIC Codes: Low-Complexity Regenerating Codes for Distributed Storage Systems. IEEE Transactions on Information Theory, 2016, 62, 3053-3069.	1.5	63
54	Online microgrid energy generation scheduling revisited. , 2016, , .		25

#	ARTICLE	IF	CITATIONS
55	Timely wireless flows with arbitrary traffic patterns: Capacity region and scheduling algorithms. , 2016, , .		4
56	Second Chance works out better: Saving more for data center operator in open energy market. , 2016, , .		9
57	Energy-efficient timely transportation of long-haul heavy-duty trucks. , 2016, , .		12
58	Coordinated device-to-device local area networks: the approach of the China 973 project D2D-LAN. IEEE Network, 2016, 30, 92-99.	4.9	5
59	Cost Minimizing Online Algorithms for Energy Storage Management With Worst-Case Guarantee. IEEE Transactions on Smart Grid, 2016, 7, 2691-2702.	6.2	37
60	When Backpressure Meets Predictive Scheduling. IEEE/ACM Transactions on Networking, 2016, 24, 2237-2250.	2.6	30
61	SHO-FA: Robust Compressive Sensing With Order-Optimal Complexity, Measurements, and Bits. IEEE Transactions on Information Theory, 2016, 62, 7419-7444.	1.5	4
62	Migration Towards Cloud-Assisted Live Media Streaming. IEEE/ACM Transactions on Networking, 2016, 24, 272-282.	2.6	47
63	Boosting indoor white space identification by exploiting the substructure of unexplored data. , 2015, , .		0
64	Online Algorithms for Automotive Idling Reduction With Effective Statistics. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2015, 34, 1742-1755.	1.9	3
65	Peak-minimizing online EV charging: Price-of-uncertainty and algorithm robustification. , 2015, , .		25
66	Cost-Effective Low-Delay Cloud Video Conferencing. , 2015, , .		9
67	Device-to-Device Load Balancing for Cellular Networks. , 2015, , .		11
68	CPCDN: Content Delivery Powered by Context and User Intelligence. IEEE Transactions on Multimedia, 2015, 17, 92-103.	5.2	29
69	WINET: Indoor white space network design. , 2015, , .		11
70	Demand Response in Smart Grids: A Randomized Auction Approach. IEEE Journal on Selected Areas in Communications, 2015, 33, 2540-2553.	9.7	33
71	Sending perishable information: Coding improves delay-constrained throughput even for single unicast. , 2014, , .		8
72	New MDS array code correcting multiple disk failures. , 2014, , .		16

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73	Effect of proactive serving on user delay reduction in service systems. , 2014, , .		6
74	Regenerating codes over a binary cyclic code. , 2014, , .		14
75	SUPER: Sparse signals with unknown phases efficiently recovered. , 2014, , .		12
76	Online algorithms for uploading deferrable big data to the cloud. , 2014, , .		17
77	Optimal Distributed P2P Streaming Under Node Degree Bounds. IEEE/ACM Transactions on Networking, 2014, 22, 717-730.	2.6	28
78	Design and analysis of a flow control scheme over wireless networks. International Journal of Robust and Nonlinear Control, 2013, 23, 208-228.	2.1	3
79	Online energy generation scheduling for microgrids with intermittent energy sources and co-generation. , 2013, , .		62
80	Simple and Effective Dynamic Provisioning for Power-Proportional Data Centers. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1161-1171.	4.0	55
81	Moving big data to the cloud. , 2013, , .		10
82	Peak-minimizing online EV charging. , 2013, , .		11
83	Moving Big Data to The Cloud: An Online Cost-Minimizing Approach. IEEE Journal on Selected Areas in Communications, 2013, 31, 2710-2721.	9.7	110
84	Celerity: A Low-Delay Multi-Party Conferencing Solution. IEEE Journal on Selected Areas in Communications, 2013, 31, 155-164.	9.7	7
85	Pyramid Codes. ACM Transactions on Storage, 2013, 9, 1-28.	1.4	114
86	Propagation-based social-aware multimedia content distribution. ACM Transactions on Multimedia Computing, Communications and Applications, 2013, 9, 1-20.	3.0	17
87	Markov Approximation for Combinatorial Network Optimization. IEEE Transactions on Information Theory, 2013, 59, 6301-6327.	1.5	143
88	Routing for security in networks with adversarial nodes. , 2013, , .		8
89	BASIC regenerating code: Binary addition and shift for exact repair. , 2013, , .		23
90	Optimal distributed broadcasting with per-neighbor queues in acyclic overlay networks with arbitrary underlay capacity constraints. , 2013, , .		8

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91	Intra-data-center traffic engineering with ensemble routing. , 2013, , .		13
92	Online energy generation scheduling for microgrids with intermittent energy sources and co-generation. Performance Evaluation Review, 2013, 41, 53-66.	0.4	24
93	Analog network coding in general SNR regime. , 2012, , .		9
94	Reverse-engineering BitTorrent: A Markov approximation perspective. , 2012, , .		8
95	Passive Network Tomography for Erroneous Networks: A Network Coding Approach. IEEE Transactions on Information Theory, 2012, 58, 5922-5940.	1.5	11
96	Mixing time and temporal starvation of general CSMA networks with multiple frequency agility. , 2012, , .		18
97	Joint VM placement and routing for data center traffic engineering. , 2012, , .		282
98	Analog network coding in general SNR regime: Performance of a greedy scheme. , 2012, , .		10
99	SHO-FA: Robust compressive sensing with order-optimal complexity, measurements, and bits. , 2012, , .		14
100	Simple and effective dynamic provisioning for power-proportional data centers. , 2012, , .		14
101	Analog network coding in general SNR regime: Performance of network simplification. , 2012, , .		8
102	Utility Maximization in Peer-to-Peer Systems With Applications to Video Conferencing. IEEE/ACM Transactions on Networking, 2012, 20, 1681-1694.	2.6	39
103	Enabling Multilevel Trust in Privacy Preserving Data Mining. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1598-1612.	4.0	67
104	CALMS: Cloud-assisted live media streaming for globalized demands with time/region diversities. , 2012, , .		110
105	An optimized distributed video-on-demand streaming system: Theory and design. , 2012, , .		5
106	Distributed Optimization in Networking: Recent Advances in Combinatorial and Robust Formulations. Springer Proceedings in Mathematics and Statistics, 2012, , 25-52.	0.1	2
107	Distributed Optimization for Combinatorial Coding Subgraph Selection Problems. , 2011, , .		1
108	Capacity of Large-Scale CSMA Wireless Networks. IEEE/ACM Transactions on Networking, 2011, 19, 893-906.	2.6	20

#	ARTICLE	IF	CITATIONS
109	Amplify-and-forward in wireless relay networks. , 2011, , .		21
110	Optimizing Multi-Rate Peer-to-Peer Video Conferencing Applications. IEEE Transactions on Multimedia, 2011, 13, 856-868.	5.2	14
111	On the performance of TCP over throughput-optimal CSMA. , 2011, , .		5
112	On the Role of Network Coding in Uncoordinated Multihop Content Distribution over Ad Hoc Networks. , 2011, , .		9
113	Peer-to-Peer Streaming Capacity. IEEE Transactions on Information Theory, 2011, 57, 5072-5087.	1.5	41
114	Cross-Layer Optimization for Wireless Networks With Deterministic Channel Models. IEEE Transactions on Information Theory, 2011, 57, 5840-5862.	1.5	14
115	A distributed multichannel demand-adaptive P2P VoD system with optimized caching and neighbor-selection. , 2011, , .		7
116	Celerity. , 2011, , .		31
117	Celerity. , 2011, , .		8
118	Optimal neighbor selection in BitTorrent-like peer-to-peer networks. , 2011, , .		11
119	P2P Streaming Capacity under Node Degree Bound. , 2010, , .		48
120	Markov Approximation for Combinatorial Network Optimization. , 2010, , .		61
121	Network Coding Tomography for Network Failures. , 2010, , .		23
122	Minimizing streaming delay in homogeneous peer-to-peer networks. , 2010, , .		5
123	RIPPLE Authentication for Network Coding. , 2010, , .		82
124	Network RS codes for efficient network adversary localization. , 2010, , .		0
125	Optimal distributed P2P streaming under node degree bounds. , 2010, , .		19
126	Cross-layer Optimization for Wireless Networks with Deterministic Channel Models. , 2010, , .		3



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127	Multi-rate peer-to-peer video conferencing: A distributed approach using scalable coding. , 2009, , .		33
128	Scaling Peer-to-Peer Video-on-Demand systems using helpers. , 2009, , .		20
129	Distributed and optimal reduced primal-dual algorithm for uplink OFDM resource allocation. , 2009, , .		4
130	Optimal random perturbation at multiple privacy levels. Proceedings of the VLDB Endowment, 2009, 2, 814-825.	2.1	41
131	Capacity of large-scale CSMA wireless networks. , 2009, , .		38
132	P2P streaming capacity: Survey and recent results. , 2009, , .		8
133	On optimality of routing for multi-source multicast communication scenarios with node uplink constraints. , 2008, , .		5
134	Optimal resource allocation for OFDM uplink communication: A primal-dual approach. , 2008, , .		8
135	Peer-to-Peer utility maximization. , 2008, , .		1
136	Utility maximization in peer-to-peer systems. Performance Evaluation Review, 2008, 36, 169-180.	0.4	20
137	Privacy Preserving Joins. , 2008, , .		11
138	Utility maximization in peer-to-peer systems. , 2008, , .		77
139	On the Maximally Recoverable Property for Multi-Protection Group Codes. , 2007, , .		32
140	Energy-Based Position Estimation of Microphones and Speakers for Ad Hoc Microphone Arrays. , 2007, , .		42
141	On Optimizing XOR-Based Codes for Fault-Tolerant Storage Applications. , 2007, , .		19
142	Pyramid Codes: Flexible Schemes to Trade Space for Access Efficiency in Reliable Data Storage Systems. , 2007, , .		217
143	An upper bound on the convergence rate of uplink power control in DS-CDMA systems. IEEE Communications Letters, 2006, 10, 231-233.	2.5	4
144	NEW CONGESTION CONTROL SCHEMES OVER WIRELESS NETWORKS: STABILITY ANALYSIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 107-112.	0.4	7

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145	Rate control for streaming video over wireless. IEEE Wireless Communications, 2005, 12, 32-41.	6.6	61
146	A fragile watermark error detection scheme for wireless video communications. IEEE Transactions on Multimedia, 2005, 7, 201-211.	5.2	61
147	A Synchronous Fragile Watermarking Scheme for Erroneous Q-DCT Coefficients Detection. Lecture Notes in Computer Science, 2001, , 812-818.	1.0	0
148	Transmission protocols for streaming video over wireless. , 0, , .		1
149	Rate control for streaming video over wireless. , 0, , .		59
150	AIO-TFRC: a light-weight rate control scheme for streaming over wireless. , 0, , .		6